

U.S. Appl. No. 09/476,485

Our Ref. No.: PHY-003US1/108236.119

Comm. Resp. to Examiner Inquiry dated November 22, 2004

EXHIBIT C

A copy of page 56 of the instant application providing the amino acid sequence of a DL-FRIL (SEQ ID NO:2).

The *DI-FRIL* nucleotide sequence enabled inference of the following derived amino acid sequence for the *DI-FRIL* protein:

AQSLSFSFTK FDPNQEDLIF QGHATSTNNV LQVTKLDSAG NPVSSSAGRV
 LYSAPLRLWE DSAVLTSFDT IINFEISTPY TSRIADGLAF FIAPPDSVIS
 5 YHGGFLGLFP NANTLNNSST SENQTTTKAA SSNVVAVEFD TYLNPDYGD
 NYIHIGIDVN SIRSKVTAKW DWQNGKIATA HISYNSVSKR LSVTSYYAGS
 KPATLSYDIE LHTVLPWVR VGLSASTGQD KERNIVHSWS FTSSLWTNVA
 KKENENKYIT RGVL (SEQ ID NO:2)

10 The naturally-occurring signal sequence from the *FRIL* family member isolated from *Dolichos lab lab* (i.e., *DI-FRIL*) has the following sequence:

MASSNLLFLA LFLVLLTHAN SA (SEQ ID NO: 4)

This sequence is located directly N-terminal to the first amino acid of SEQ ID NO: 2. The nucleic acid sequence of the naturally-occurring *DI-FRIL* protein is provided below.

15 1 ATGGCTTCCT CCAACTTACT CACCCTAGCC CTCTTCCTTG TGCTTCTCAC
 51 CCACGCAAAC TCAGCCGCAC AGTCATTGTC ATTTAGTTTC ACCAAGTTTG
 101 ATCCTAACCA AGAGGATCTT ATCTTCCAAG GTCATGCCAC TTCTACAAAC
 151 AATGTCTTAC AAGTCACCAA GTTAGACAGT GCAGGAAACC CTGTGAGTTC
 20 201 TAGTGCGGGA AGAGTGTTAT ATTCTGCACC ATTGCGCCTT TGGGAAGACT
 251 CTGCGGTATT GACAAGCTTT GACACCATT TCAACTTTGA AATCTCAACA
 301 CCTTACACTT CTCGTATAGC TGATGGCTTG GCCTTCTTCA TTGCACCACC
 351 TGA CTCTGTC ATCAGTTATC ATGGTGTTT TCTTGGACTC TTCCCAACG
 401 CAAACACTCT CAACAACCTCT TCCACCTCTG AAAACCAAAC CACCACTAAG
 25 451 GCTGCATCAA GCAACGTTGT TGCTGTTGAA TTTGACACCT ATCTTAATCC
 501 CGATTATGGT GATCCAAACT ACATACACAT CGGAATTGAC GTCAACTCTA
 551 TTAGATCCAA GGTAACCTGCT AAGTGGGACT GGCAAAATGG GAAAATAGCC
 601 ACTGCACACA TTAGCTATAA CTCTGTCTCT AAAAGACTAT CTGTTACTAG
 651 TTATTATGCT GGGAGTAAAC CTGCGACTCT CTCCTATGAT ATTGAGTTAC
 30 701 ATACAGTGCT TCCTGAATGG GTCAGAGTAG GGTATCTGC TTCAACTGGA
 751 CAAGATAAAG AAAGAAATAC CGTTCACCTCA TGGTCTTTCA CTTCAAGCTT
 801 GTGGACCAAT GTGGCGAAGA AGGAGAATGA AAACAAGTAT ATTACAAGAG